

Radio Graphs

Proper Care Essential for Good Radio Set

BY R. L. DUNCAN

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Most radio fans are so intent on listening in, that they often forget to take the proper care of their sets. Here are some pointers that may keep your expenses low and your receptive power high:

Filament Current

In most tubes the filament current is supplied by a six-volt storage battery. To use this complete voltage would run down the life of the tube. So a rheostat is used for the regulation of the current.

There is also a switch of some kind. Instead of regulating the current by the rheostat, some amateurs set it and then simply throw the switch.

This is wrong. Never throw the load on the filament suddenly. Feed it in slowly by a gradual advance in the rheostat.

One cannot accurately tell just how much voltage should be applied to the filament, for that depends on the condition of the tube. Generally speaking the current flow should be between four and five volts.

"B" Battery

The "B" battery is always left connected to the plate of the tube. But it should be variable in steps. Some detector tubes require 22 1-2 volts, while others perform most efficiently on 17 or 18 volts.

When used for amplifying tubes also, the "B" battery should be variable from 40 to 60 volts.

Never use any more voltage on either plate or filament than is ab-

solutely necessary, for the tube may become paralyzed. With the proper care, the tube should last many months.

Grid Leak—Condenser

Some amateurs use neither grid leak nor grid condenser. But these parts are so inexpensive and helpful in increasing the efficiency of the set that every vacuum tube set owner should use them.

They can be made easily, as described in these columns before.

Be sure that the leak and condenser used are of the proper value for your receiver.

Loose Connections

Poor soldering and loose connections cause the greatest inefficiency. Every radio fan should go over all connections regularly—starting for the aerial and working down to the ground.

If you are using a pipe for a ground, be sure that it is the cold water pipe. The other pipes may not have an immediate ground connection.

Amplifying Transformers

In constructing or purchasing an amplifying transformer, see that the amplifying transformers are at right angles.

It is best to have the complete inside of the receiver shielded with thin copper, which should be grounded to your regular ground. This does away with all body capacity.

Have you ever noticed that incoming signals received at a maximum value are often decreased in power when the receiver takes his hand away from the dial or tuning knob?

This is the effect of body capacity on a set which is not shielded.

In making this shield be sure that it does not touch any of the tuning elements or connecting wires in the receiver.

RADIO PRIMER

AMPLITUDE—The highest point attained by a radio wave, or oscillation. The crest of a wave. The amplitude of a radio wave is dependent upon the initial energy that creates it. The greater the energy, the greater the amplitude.

ture, and if I made good in that he'd form a company to star me."

"What rot!"

"Very well, Dobbin. Let's say no more about it."

The constraint that fell between them like a curtain of muffling folds, was presently emphasized by an abrupt suspension of the music. When Daubeney could endure it no longer, he broke it with a question, the most impolite conceivable: "You didn't tell me what answer you gave Culp, Cinda?"

"Didn't I? But I'm sure it doesn't matter."

But his manifest reticence estranged him no more than a shiver of emotion. Descending the several steps from the box level to the common, they threaded their way through a jam of tables to the fringe of the dance-mad mob, in whose closely-packed, rocking and surging rout considerable imagination and ingenuity were required to find room.

All about them couples were practicing every conceivable variety of step that could be executed to the rhythm beaten out by tireless drums whose timbre had all the grim and widely stimulating monotony of African tom-toms. Many contented themselves with a solemn, well-nigh ritualistic flinging by means of which they traversed the floor crab-wise, inch by inch. Others charged short distances at headlong speed, checked short, whirled madly, darted and swooped again with incredible agility, in a sort of corbanitic frenzy.

Still others favored a tedious twirling, like amorous dervishes. Yet there were strangely few collisions.

And suddenly she knew she had had enough.

"It's too crowded," she told Dobbin; and he nodded agreement. "Shall we stop when we get round to our box?"

Without warning Lucinda was struck by a wildly careering body with such force that she lost footing altogether and must have fallen but for Dobbin.

Simultaneously the floor shook with the impact of two heavy falls. And clinging to Dobbin, a little dazed, Lucinda saw a strikingly pretty young woman, stunningly underdressed, sprawling at her feet, and at a yard's distance a man in similar plight.

(Continued in Our Next Issue)

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Greater May Sale of Women's Apparel

This is the occasion when hundreds of women who have delayed the selection of their season's outfits find just the garments they want at prices amazingly low. The number of smart seasonable

Suits, Coats, Wraps, Capes, Dresses, Skirts, Bouses and Hats

that enter into this mighty merchandising movement runs into the hundreds. Every garment has been chosen with painstaking care; every garments measures up to our high standard of quality and is greatly reduced in price during this big May Sale.

Coats, Capes, Wraps

Are Again Cut in Price

Artistically designed from those soft, rich fabrics which drape so gracefully. With their dash and smartness, their practical fabrics have met under their feature pricing to the advantage of all thrifty women.

Former Price	Sale Price	You Save
\$19.95	\$13.30	\$ 6.65
\$21.75	\$14.50	\$ 7.25
\$25.00	\$16.67	\$ 8.33
\$35.00	\$23.34	\$11.66
\$39.50	\$26.34	\$13.16
\$45.00	\$30.00	\$15.00
\$75.00	\$50.00	\$25.00
\$89.50	\$59.67	\$29.83
\$95.00	\$63.34	\$31.66

Beautiful Dresses

In the Big May Sale

The smart styles of these dresses and the excellent quality of their materials give them a remarkable value emphasize by the very low prices.

The collection comprises Dresses of Canton Crepe, Taffeta, Satin faced Canton and Roshanara Crepe. Many are richly beaded or embroidered in the most popular spring styles and colorings.

\$15.00 Dresses	\$11.25	\$35.00 Dresses	\$26.25
\$19.95 Dresses	\$14.97	\$39.50 Dresses	\$29.63
\$24.50 Dresses	\$18.37	\$45.00 Dresses	\$33.75

Beautiful Suits

Another Big Price Cut

Charming suits from the leading style centers. Attractive new models developed of quality tricotines, pique twills and tweeds. Introducing the season's very newest style tendencies for women and misses.

Former Price	Sale Price	You Save
\$25.00	\$16.67	\$ 8.33
\$29.50	\$19.67	\$ 9.83
\$35.00	\$23.34	\$11.66
\$39.50	\$26.34	\$13.16
\$45.00	\$30.00	\$15.00
\$49.50	\$33.00	\$16.50
\$55.00	\$36.67	\$18.33
\$59.50	\$39.67	\$19.83
\$65.00	\$43.34	\$21.66

Summer Skirts

At May Sale Prices

Beautiful new Skirts for street and sports wear in lacy plaids and stripes, plain and fringed.

\$5.00 Skirts	\$3.75	\$11.95 Skirts	\$8.97
\$6.95 Skirts	\$5.22	\$12.50 Skirts	\$9.38
\$10.00 Skirts	\$7.50	\$15.00 Skirts	\$11.25

Dress Skirt

Values to \$25.00 at \$5.00
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Millinery women like because the styles and shapes are absolutely correct and the materials and colorings are those in demand. If you are interested in a beautiful new Spring Hat at a big saving in price you will want to see our collection.

Three Money-Saving Groups Now Selling at Half Price and Less

The greatest opportunity to buy a fine new Hat that has been presented this season.

\$3.50 Hats	\$5.00, \$6.95, \$7.50 Hats	\$8.95, \$10.00, \$12.50 Hats
\$2.19	\$3.49	\$4.98

Women's and Misses' Gingham Dresses

Women's and Misses' Gingham and Crepe Dresses, in plaids and stripes, light and dark colors, organdy, pique, braid and embroidery trimmed, in sizes 16 to 48. All new stock, and look what you save!

\$2.95 Reduced to	\$2.22
\$3.45 Reduced to	\$2.59
\$4.45 Reduced to	\$3.34
\$5.00 Reduced to	\$3.75
\$6.95 Reduced to	\$5.22
\$7.95 Reduced to	\$5.97

Dress Aprons At Special Prices

Children's Percale Aprons in mostly dark colors, sizes 6 to 12 years; very special, sale price . . . 39c
Women's Aprons of light percale in sizes 38 to 42; \$1.00, \$1.25 value, sale price . . . 69c
Women's Percale and Gingham Aprons, plain and fancy styles, good assortment of patterns; specially priced from . . . \$1.25 to \$3.00

Children's Coats

Selling at Greater Reductions

Beautiful little Coats made just like mother's. They are splendidly made of polo cloth, velour, chinchilla and mixtures. In the popular spring colors. Every Coat has been still further reduced for this May Sale.

Former Price	Sale Price	You Save
\$ 5.95	\$ 3.97	\$1.98
6.95	4.64	2.31
8.95	5.97	2.98
9.75	6.50	3.25
12.50	8.37	4.13
15.00	10.00	5.00

Infants' Wool Flannel Petticoats, Gertrude style, embroidered and hemmed edge (slightly soiled); \$2.50 value at . . . \$1.50

Embroidered Collar Edging in white and white and jade, white and scarlet and buff and copen; special, yard . . . 38c

May Sale Specials

Tapestry Table Runners, size 21x62, assorted patterns; sale price . . . \$1.00

Women's Umbrellas, fancy bakelite handles, in white and colors; special . . . \$1.49

New assortment of Val and Filet Lace, at yard . . . 5c

Mufli, Dry Cleaner, a quick ready-for-use product that cleans all kinds of wearing apparel; special . . . 21c

M. n's Athletic Union Suits of cross barred dimity, sizes 36 to 46; very special, sale price . . . 79c

Venice Lace Edges; special, yard . . . 3c

Men's and Women's Handkerchiefs, plain hemstitched; special . . . 8c

Children's White Nainsook and Organdy Dresses, 2 to 4 years; \$2.50 and \$3.00 values—for . . . \$1.25

Children's White Rompers, (slightly soiled) 4, 5, 6 year sizes; \$1.00 value. 50c

New Girdles In leather, metal and combinations. Regular \$1.00 value; sale price . . . 79c

Remnant Special One lot of Ribbon and Lace Remnants at Half Price.

Stamped Pillow Cases, ready made to embroider, 42 inch; very special, pair . . . 59c

Short Silk Gloves in white, gray, pongee and black; very special, pair . . . 79c

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BEGIN HERE TODAY

To forget the bitter troubles of her domestic life, LUCINDA DRUCE accepts the invitation to visit the New York studio of the famous movie queen, ALMA DALEY. The visit is suggested by

HARRY LONTAINE, who hopes to revive his fortune by forming a motion picture company in California. On the trip to the studio in Ninth Avenue, Lucinda muses over the break with her husband.

BELLAMY. Wealth, youth, and beauty had failed to bring happiness to their Fifth Avenue home after five years of married life. Bellamy's heavy drinking and promiscuous flirtations had destroyed her early love for him. And now,

RICHARD RAUBENEY, her old sweetheart, had returned to New York. At the studio, arrangements were made for the members of the party to pose before the camera.

GO ON WITH THE STORY
And Mr. Willing was to understand that these were to be regular tests and no monkey business. He was to see that someone with plenty of know-how helped the ladies make up; after which he was to shoot the party as a whole in some little scene or other, in addition to making individual close-ups.

A compliment signified their screen debut, the presence of Miss Daley—"in person"—composed, hospitable, showing every anxiety to make their tests successful.

"I thought it would be nice if we could all have tea," Miss Daley explained—make a regular little scene of it."

"I'm sure that would be delightful," replied Lucinda, suspended judgment melting into liking even in those first few minutes.

Miss Daley was careful enough to make her guests forget themselves and the trial to come, as they took their places—and were served with tea by actor-waiters in correct livery. All the same, Lucinda noticed that their hostess ingeniously maneuvered to a central position in the foreground, which she sat full-face to the camera; this being by far her best phase, and just before the lights blazed up, the girl launched into a spirited account of her passage-at-arms with King Laughlin.

Clever actress that she was, Miss Daley extemporized a star part for herself by rising without warning and announcing that she would have to run and change for the scenes to be photographed.

"I'll try to hurry and try to get ready before you go," she said, shaking hands all round with charming grace. "But I don't want you again. It's been just wonderful to meet you all, and I do hope this isn't goodbye forever."

The bank lights blazed out and the camera stilled its stuttering.

"Nice little scene," said Mr. Culp, intercepting Lucinda as she left the set. "Going to screen pretty. I'm bankin' on Jack here."

He dropped an affectionate, fat hand on the shoulder of the cameraman. "Excuse me, Mrs. Druce, want to introduce you to Mr. Jack Timbly, best little cameraman ever turned a crank." The cameraman grinned sheepishly and proffered a timid hand. "No temptation, no funny business about Jack, Mrs. Druce. When Jack says that little scene took pretty, I know it did."

"Slight, Mrs. Druce," Mr. Timbly agreed. "I wouldn't say about the others, but you and that other little blonde lady—"

"Mrs. Lontaine."

"Her and you registered like a million dollars."

Nevertheless the little filip administered to her self-esteem made Lucinda feel more contented; it deepened her interest in the business in hand.

On the point of leaving, Culp put in a hasty appearance and insisted on escorting Lucinda to the door.

"Isn't Mrs. Druce," he abruptly volunteered. "Jack says your tests going to turn out great. That's just what he said—'like a million dollars.' And I been thinking—"

was speakin' it over with Mrs. Culp in her dressing-room, d'y'see, and she's strong for it, says she'd be tickled to pieces. I was thinkin' maybe you'd like to try goin' into pitchers. You got everythin' d'y'see, looks and style and all, everythin' but experience; and that's somethin' you can get right here in this studio, workin' with Mrs. Culp. I got a good part for you in her next pitcher you could try out in, and—"

"It's awfully kind of you," Lucinda interrupted, "and I'm truly appreciative, Mr. Culp; but really I couldn't think of it."

"Well, of course, if you don't think it different." He pondered gloomily this. Incomprehensible freak. "Isn't," he suggested, brightening. "Tell you what, Mrs. Druce: you go home and think it over."

"Seriously, Mr. Culp; if I should think it over for a month, my decision would be the same. But thank you ever so much—and please thank Mrs. Culp for me, too."

"Well," Culp said reluctantly, holding the street door, "if that's the way you feel about it—well, of course, . . . G'night, Mrs. Druce, and please meet you."

Crossing to her car, Lucinda experienced a vagary of vivid reminiscence. Just for an instant the clock was turned back for her a dozen years and more, she was again a little girl, a child bringing dazed eyes of dream from the warm and scented romance of a matinee, her thrilled perceptions groping mutely toward reconciliation with the mysterious vertiges of streets mantled in blue twilight.

That passed too quickly, too soon she was Lucinda Druce once more, grown up and married, disillusioned.

Notwithstanding that, she drove directly home, pausing only to drop Daubeney at his club and the Lontaine's at their hotel.

The telephone rang in the boudoir. The maid answered for her, and came to report that Mr. Druce had called up to say he wouldn't be dining at home that night, he was detained by a "conference."

Without looking, Lucinda knew that the woman's eyes were demure, her lips twitching.

Her just anger of that afternoon recurred with renewed vehemence. On leaving her bath Lucinda delayed only long enough to shrug into a dressing-gown before going to the telephone, call Daubeney and make an engagement for the evening.

At first glance, the huge main room of the Palais Royal seemed less frequented by clients than by waiters; but the influx of the former was constant, and when a gang of innumerable melonians crashed, cleared a whang into a jazz-box-trot, the oval dance floor was quickly hidden by swaying couples.

For some minutes Lucinda sat looking out over without seeing these herded dancers, only aware of the shifting swirl of color and the hypnotic influence of savage music, her thoughts far from this decadent adaptation of jungle orgies which she had come to witness. And presently a smile began to flicker in the depths of her eyes.

"Oh!" she said, rousing when Daubeney uttered a note of